

# 8<sup>th</sup> International Feline Retrovirus Research Symposium

## 2006 Program & Agenda

### Sunday, October 8, 2006

3:00 – 5:30	p.m.	Registration	
5:30 – 6:00	p.m.	Stephen O'Brien	Welcome
6:00 – 7:15	p.m.	Albert D. M. E. Osterhaus	1 Evening Keynote Speaker: <i>Newly Emerging Viral Infections</i>
7:15 – 9:15	p.m.	Opening Reception	Washington Room

### Monday, October 9, 2006

#### Session 1

#### Introduction & Overview (Moderator: Mary Tompkins)

8:30 – 8:40	a.m.	Stephen O'Brien	Introduction
8:40 – 9:10	a.m.	Mary Tompkins	2 Plenary: <i>Immune Dysfunction In FIV Infection: An Overview</i>
9:10 – 9:40	a.m.	Brian Willett	3 Plenary: <i>Chemokines And Co-Stimulatory Molecules: Unravelling The Mechanism Of Infection With FIV.</i>
9:40 – 10:10	a.m.	Sue VandeWoude	4 Plenary: <i>Mechanisms of Feline Lentivirus Interference and Control</i>
10:10 – 10:40	a.m.		Break
10:40 – 11:10	a.m.	Peter Rottier	5 Plenary: <i>Genetically Modified Feline Coronaviruses as Vaccines for Protection against Feline Infectious Peritonitis (FIP)</i>
11:10 – 11:40	a.m.	Hans Lutz	6 Plenary: <i>Diagnosis of Feline Leukemia Virus (FeLV) Infection. Review and Outlook</i>
11:40 – 12:10	p.m.	Oswald Jarrett	7 Plenary: <i>How FeLV Changed The World</i>
12:10 – 1:30	p.m.		Lunch                      Ballroom, General Session Room

**Monday, October 9, 2006**

**Session 2**

1:30 – 2:00	p.m.	Colin Parrish
2:00 – 2:20	p.m.	James Fox
2:20 – 2:40	p.m.	Edward Breitschwerdt
2:40 – 3:00	p.m.	Craig Packer
3:00 – 3:20	p.m.	Christiaan Winterbach
3:20 – 3:50	p.m.	

**Session 3**

3:50 – 4:10	p.m.	Eric Poeschla
4:10 – 4:30	p.m.	Edward Hoover
4:30 – 4:45	p.m.	Benjamin Luttge
4:45 – 5:00	p.m.	Benjamin Wang
5:00 – 5:15	p.m.	Mauro Pistello
5:15 – 5:30	p.m.	Eric Poeschla
5:30 – 5:45	p.m.	Barnabe Assogba
6:00 – 7:00	p.m.	

**FREE EVENING**

**Emerging Pathogens (Moderator: Colin Parrish)**

8 Plenary:	<i>Variation In Transferrin Receptor Binding Determines Host Susceptibility To Feline And Canine Parvoviruses</i>
9 Plenary:	<i>Helicobacter spp. Influences the Development of Primary Gastric Lymphoma in Cats: A Testable Hypothesis</i>
10 Plenary:	<i>Bartonellosis: Of Cats, Dogs and Veterinary Professionals</i>
11 Plenary:	<i>The Ecology of Disease Outcomes in the Serengeti</i>
12 Plenary:	<i>Sero-Prevalence Of Feline Immunodeficiency Virus In African Lions – Is It Host Density Dependent?</i>
	Break

**FIV Virology (Moderator: Eric Poeschla)**

13 Plenary:	<i>An Essential Co-Factor For HIV And FIV Integration</i>
14 Plenary:	<i>In Vivo CXCR4 Expression, Lymphoid Cell Phenotype, And Feline Immunodeficiency Virus Infection</i>
15	<i>Mechanisms Of FIV Release From Infected Cells</i>
16	<i>Pathogenic Determinants Of Feline Immunodeficiency Virus Accessory Gene ORF-A</i>
17	<i>Development of a Self-Inactivating Bicistronic Lentiviral Vector for Heterologous Primary Cells Transduction</i>
18	<i>Species-Specific Post-Entry Restriction Of FIV</i>
19	<i>APOBEC In FIV Infection And Latency</i>
Poster Session	Washington Room (posters will be up until Tuesday evening)

**Tuesday, October 10, 2006**

**Session 4**

8:00 – 8:30	a.m.	Naoya Yuhki
8:30 – 9:00	a.m.	Mauro Bendinelli
9:00 – 9:15	a.m.	Angela Mexas
9:15 – 9:30	a.m.	Jonathan Fogle
9:30 – 9:45	a.m.	Tracy Lehman
9:45 – 10:15	a.m.	Break

**Session 5**

10:15 – 10:45	a.m.	Janet Yamamoto
10:45 – 11:05	a.m.	Mauro Pistello
11:05 – 11:20	a.m.	Eiji Sato
11:20 – 11:35	a.m.	Francesca Bonci
11:35 – 11:50	a.m.	S. Rochelle Smithberg
11:50 – 12:05	p.m.	Katrin Hartmann
12:05 – 1:30	p.m.	

**Feline Immunology (Moderator: Naoya Yuhki)**

20 Plenary:	<i>Evaluation of 2 x Cat Whole Genome Shotgun Sequence Assembly based on Complete Annotation of BAC based MHC Sequence and SNP Analysis of two MHC Haplotypes</i>
21 Plenary:	<i>The Tryptophan-Rich Motif (TrpM) in the Membrane-Proximal External Region (MPER) of the FIV TM as a Model for Fusion Inhibitors and Immunogens</i>
22 Effect Of	<i>CD4+CD25+ Regulatory T Cells On CD4+ T Helper Cell Immune Responses During The Acute Phase Of FIV Infection</i>
23 Ex Vivo Depletion Of	<i>CD4+CD25+ Regulatory T Cells Leads To Enhanced CD8+ T Cell IFN-<math>\omega</math>; Production During Acute FIV Infection</i>
24 The Effects Of Chronic Feline Immunodeficiency Virus Infection On Bone-Marrow Derived Dendritic Cell Cytokine Production In Response To Toll-Like Receptor And CD40 Ligation	

**FIV Vaccines & Therapy (Moderator: Janet Yamamoto)**

25 Plenary:	<i>Probing the Mechanisms of Dual-subtype FIV Vaccine Protection</i>
26 Plenary:	<i>Should Accessory Proteins Be Structural Components of Lentiviral Vaccines? Lessons Learned From the Accessory ORF-A Protein of FIV</i>
27 Sequence Analysis of MHC-I Genes Confirms MHC-I-restriction in Dual-subtype FIV Vaccine Protection	
28 A New Fluorimetric Assay For Monitoring Cytotoxic T-Lymphocyte Activity Elicited By A Prime Boost Vaccination Against FIV Env	
29 Preservation Of Anti-FIV-P24 Effector Cells During Depletion Of Treg Cells From Feline Lymphoid Tissues	
30 Influence Of Feline Interferon- $\gamma$ ; On The Survival Time Of Cats Infected With Feline Infectious Peritonitis	
Lunch	Ballroom, General Session Room

**Tuesday, October 10, 2006**

**Session 6**

1:30 – 2:15 p.m. Stephen O'Brien

2:15 – 2:35 p.m. Joan Pontius

2:35 – 3:05 p.m. Alfred Roca

3:05 – 3:25 p.m. Jill Pecon-Slattery

3:25 – 3:40 p.m. Warren Johnson

3:40 – 4:10 p.m.

**Feline Genomics & Viral Evolution (Moderator: Stephen J. O'Brien)**

31 Plenary: *The Annotation and Promises of the Feline Genome Sequence*

32 Plenary: *Use of Online Resources for the Annotation of Retroviral Interactions in the Felis catus Genome*

33 Plenary: *Endogenous Retroviruses in the Domestic Cat Genome*

34 Plenary: *Genetic Signatures Of FIV Evolution In Felidae*

35 *Mitochondrial Introgressions Into The Nuclear Genome Of The Domestic Cat*

Break

**Session 7**

4:10 – 4:40 p.m. John Elder

4:40 – 4:55 p.m. Allison German

4:55 – 5:10 p.m. Surender Kumar

5:10 – 5:25 p.m. Nicola Fletcher

5:25 – 6:00 p.m. Round Table Discussion: *Integration Of Genomics And Infectious Disease In The Cat Model: Ongoing And Future Perspectives.*  
Stephen O'Brien (chair), John Elder, Hans Lutz, Sue VandeWoude, Mauro Pistello, Brian Willett

6:00 – 7:00 p.m. Cocktails, Sky Terrace

7:00 – 11:00 p.m. 40 Banquet Keynote Speaker : William Hardy, Jr  
*Lessons From Time Spent in Cat Houses: An Historical Overview of the Feline Leukemia Virus and Other Pathogens*  
Washington Room

**Wednesday, October 11, 2006**

**Session 8**

8:00 – 8:30	a.m.	Mary Poss
8:30 – 8:50	a.m.	Melody Roelke
8:50 – 9:05	a.m.	Mark Cunningham
9:05 – 9:25	a.m.	Meredith Brown
9:25 – 9:45	a.m.	Jennifer Troyer
9:45 – 10:15	a.m.	

**Retroviral Infection of Exotic Cat Species (Moderator: Mary Poss)**

41 Plenary:	<i>Molecular Biology And Evolution Of Feline Lentiviruses</i>
42 Plenary:	<i>Wild African Lions And Florida Pumas Infected With FIV Reveal Distortions In Their T-Lymphocyte Profiles With Significant CD4 Cell Depletion: Clinical &amp; Pathological Consequences</i>
43	<i>Epizootiology and Management of Feline Leukemia Virus in Free-Ranging Florida Panthers –Research Update</i>
44 Plenary:	<i>Genetic Characterization Of Feline Leukemia Virus (FeLV) In The Free-Ranging Florida Panther (Felis concolor coryi) Population</i>
45 Plenary:	<i>FIV Cross-Species Transmission: An Evolutionary Prospective</i>
	Break

**Session 9**

10:15 – 10:45	a.m.	Takayuki Miyazawa
10:45- 11:15	a.m.	Laura Levy
11:15 – 11:35	a.m.	Regina Hofmann-Lehmann
11:35 – 11:50	a.m.	Kristina Howard
11:50 – 12:05	a.m.	Andrea Torres
12:05 – 12:20	p.m.	Regina Hofmann-Lehmann
12:20 – 12:35	p.m.	Ravi Tandon
12:35 – 12:50	p.m.	Julie Levy

**FeLV Virology & Pathogenesis (Moderator: Takayuki Miyazawa)**

46 Plenary:	<i>A Soluble Envelope Protein Of Endogenous Retrovirus Present In Serum Of Domestic Cats Mediates Infection Of A Pathogenic Variant Of Feline Leukemia Virus</i>
47 Plenary:	<i>Selection and Pathogenesis of an Unusual FeLV Isolate Predominant in a Natural Cohort</i>
48 Plenary:	<i>How Molecular Methods Change Our Views Of FeLV Infection And Vaccination</i>
49	<i>Difference In Mucosal FIV Pathogenesis Using Decreased Doses Of Viral Inoculum</i>
50	<i>FeLV Or Pathogenesis; Insight Into FeLV:Host Relationships Using Real-Time DNA And RNA qPCR</i>
51	<i>Cellular Segregation Of Feline Leukemia Virus In Leucocyte Subsets Of Long-Term Experimentally Infected Cats</i>
52	<i>Copy Number Polymorphisms Of Endogenous Feline Leukemia Virus-Like Sequences</i>
53	<i>Long-Term Outcome Of Cats With Natural FeLV And FIV Infection</i>

12:50 – 1:05	p.m.	Yasuhito Fujino	54 <i>Identification Of A Common Proviral Integration Site, Flit-1, In Feline Leukemia Virus-Induced Thymic Lymphomas</i>
1:05 – 1:20	p.m.	Stephen O'Brien	Concluding Remarks